

# ADITYA SHARMA

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## CORE SKILLS:

**Data Analysis & Business Intelligence:** SQL, Python (Pandas, NumPy, Seaborn, Matplotlib), Power BI, Tableau  
**Statistical Analysis & Forecasting:** A/B Testing, Regression Analysis, KPI Tracking, Trend Forecasting, Customer Segmentation  
**Database & Query Optimization:** Advanced SQL (Joins, CTEs, Window Functions), Data Cleaning, BigQuery, Snowflake  
**Stakeholder Communication & Reporting:** Data-Driven Decision Making, Dashboard Development, Ad-Hoc Reporting

## CERTIFICATIONS:

Databricks Data Engineer Associate Certification (Issued: March, 2025)

## PROFESSIONAL EXPERIENCE:

### BIG DATA SUPPORT SPECIALIST

Sep 2023 – Apr 2024

Simon Fraser University | Vancouver

- Designed, implemented, and maintained scalable ETL pipelines using Python, Apache Spark, and Google BigQuery, processing millions of records with 99.9% uptime.
- Automated data ingestion from SFTP servers and REST APIs, enhancing real-time data processing capabilities by 30%.
- Developed and optimized SQL-based schemas for internal data warehouses, improving query efficiency by 40%.
- Monitored and troubleshooted operational issues in ETL workflows, ensuring data consistency and minimal downtime.

### DATA ENGINEER INTERN

Sep 2020 – Jul 2021

Indian Council of Medical Research | New Delhi

- Built and optimized ETL pipelines with Python and SQL, processing medical data for large-scale epidemiological studies.
- Designed data models to improve vaccine efficacy analysis by 30%, ensuring compliance with data governance policies.
- Resolved data pipeline failures by analyzing root causes, reducing incident response time by 25%.
- Collaborated with stakeholders to create dashboards and reports, driving actionable insights for public health strategies.

### JUNIOR DATA ANALYST

Nov 2019 – Dec 2019

NuWave Solutions pvt ltd | New Delhi

- Optimized customer segmentation by analyzing 5 million transaction records using K-Means clustering in Python, leading to a 20% increase in targeted marketing effectiveness and customer retention.
- Enhanced demand forecasting with an ensemble regression model in Python, achieving 92% sales prediction accuracy while ensuring data confidentiality and integrity during processing.

## PROJECTS:

### Analytical Study of Mental Well-being Among University Students

Jan 2024 – Apr 2024

- Conducted a secure analysis of university students' mental well-being using OLS regression and Mixed Linear Models, identifying factors that improved mental health outcomes by 15%, particularly in reducing stress levels.
- Processed and cleaned data using Python and Pandas, then created dynamic Tableau visualizations that revealed a positive correlation between regular exercise and reduced anxiety, boosting stakeholder comprehension by 20% and driving actionable recommendations for mental health initiatives.

### Data Driven Customer Segmentation and game recommendations for SFU

Jan 2023 – Apr 2023

- Developed an end-to-end ETL pipeline for web scraping, cleaning, and storing gaming data in BigQuery, which resulted in 89% recommendation accuracy and 40% improved student engagement.
- Performed feature engineering using SQL and dimensionality reduction with PCA, achieving 89% accuracy in game recommendations and enhancing predictive model performance.
- Developed a decision tree classifier using scikit-learn to forecast game success with an 84% F1-score, and created interactive visualizations using Tableau, which increased stakeholder engagement by 40% and revealed the impact of game genre and developer on success.

## EDUCATION:

### Master's of Computer Science in Big Data

Sep 2022 – Apr 2024

Simon Fraser University

Burnaby B.C

### Bachelor's in Technology in Computer Science

Jul 2018 – May 2022

SRM Institute of Science and Technology

Chennai India

## SUMMARY:

Data Analyst skilled in SQL, Python, and data visualization tools like Power BI & Tableau. Experienced in analyzing large datasets, developing business reports, and delivering actionable insights to drive decision-making. Strong background in statistical analysis and stakeholder collaboration to optimize business performance. Passionate about transforming raw data into meaningful insights.